IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1-9 (canceled)

10. (previously presented)   An information processing device comprising:

first storage means, for storing an encrypted first key encrypted by a second key, the first storage means comprising:

first authentication means for authenticating and generating a temporary key;

first encrypting/decrypting means for decrypting the encrypted first key with the second key, and for encrypting the first key with the temporary key; and

transmitting means for transmitting the encrypted first key with the temporary key;

decoding means comprising:

second authentication means for authenticating the first storage means and sharing the temporary key with the first storage means;

receiving means for receiving the encrypted first key with the temporary key from the first storage means; and

second encrypting/decrypting means for decrypting the encrypted first key with the temporary key;

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wherein the decoding means decodes the information with the first key obtained

by the second encrypting/decrypting means.

11. (previously presented)   An information processing method comprising:

   a first storage step of storing an encrypted first key encrypted by a second key;

   a first authentication step of authenticating the first storage step and generating a

temporary key;

   a first encrypting/decrypting step of decrypting the encrypted first key with the

second key, and encrypting the first key with the temporary key;

   transmitting the encrypted first key with the temporary key;

   a first decoding step that includes a second mutual authentication step of

authenticating the first storage step and for sharing the temporary key with the first storage step;

   receiving the encrypted first key with the temporary key;

   a second encrypting/decrypting step of decrypting the encrypted first key with the

temporary key; and

   a second decoding step of decoding the information with the first key obtained by

the second encrypting/decrypting step.

12. (previously presented)   A program providing medium for providing a computer-readable

program with respect to an information processing device comprising:

   a first storage step of storing an encrypted first key encrypted by a second key;

   a first authentication step of authenticating and generating a temporary key;

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a first encrypting/decrypting step of encrypting/decrypting the encrypted first key

with the second key and for encrypting the first key with the temporary key;

transmitting the encrypted first key with the temporary key;

the program causing the decoding means to execute processing comprising:

a second authentication step of authenticating the first storage step and for

sharing the temporary key with the first storage step;

receiving the encrypted first key with the temporary key from the first

storage step;

a second encrypting/decrypting step of decrypting the encrypted first key

with the temporary key; and

a third decoding step of decoding the information with the first key

obtained by the second encrypting/decrypting step.

13-71 (canceled)

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